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56 Publications taken into consideration to determine
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DD 2 88 942 A5
US 53 45 160
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54 Electronic circuit and method to drive an inverted
rectifier

57 The invention relates to an electronic circuit (10) to drive a single- or multi-phase inverted rectifier (12) whose alternating-current output is connected with a primary winding (15) conducting primary current I_p in a transformer (14), whereby a load may be switched to at least one secondary winding (60, 62) conducting secondary current I_s of the transformer (14), said load including a regulating circuit (78) and a control unit (40) for pulse control of power semi-conductors (T1 - T4) of the inverted rectifier. In order to be able to operate the transformer symmetrically and in order to enable any phase angle and output-current characteristic curve, it is arranged that a first measurement element (58) is provided to determine the primary current I_p and a second measurement element is provided to determine the secondary current I_s ; that a regulatory differential consisting of primary current I_p and secondary current I_s is fed to super-imposed voltage-regulation device (80) with a comparator (98); that the primary current I_p is fed to the comparator (98) as an actual current value $I_{p\text{actual}}$; and that an output (101) from the current-regulation device (96) is connected with an input of the control unit (40).

